

LISTING OF CLAIMS:

Claims 1-4 (Canceled).

5. (Currently Amended) A playback apparatus that performs playback of a title that includes a digital stream, and execution of an application, the playback apparatus operating in one of a movie mode and a virtual machine mode, the playback apparatus comprising:

a virtual machine operable to execute the application in the virtual machine mode;

a playback control engine unit ~~operable to perform playback control on the digital stream~~;

and

an event manager operable to, when an event is generated in response to a user operation in the virtual machine mode, judge whether or not to cause the application to process the event, and when a result of the judgment is affirmative, further operable to output one of key events so as to cause the application to process the event,

wherein the event indicates that a user has operated one of keys that are respectively allocated to audio video (AV) functions,

~~the event manager includes an operation manager that, when the result of the judgment is negative, causes the playback control engine unit to process an operation corresponding to the event,~~

the application is associated with event registration information indicating whether or not each of the key events has been registered therewith, and any key event that is indicated as having been registered with the event registration information can be processed by the associated application,

the judgment by the event manager is made by, when the event is generated in response to the user operation, judging whether or not the event has been registered with the event

registration information associated with the application that is executed by the virtual machine,

the event manager includes an operation manager that, when the result of the judgment is negative, instructs the playback control engine unit to perform an AV function corresponding to the event.

6. (Currently Amended) The playback apparatus of claim 5, wherein
the digital stream, the application, and an index table have been recorded on a recording medium,

the index table shows titles and operation mode objects in one-to-one correspondence,
the operation mode objects include an operation mode object for [[a]] the movie mode
and an operation mode object for [[a]] the virtual machine mode, and

the judgment made by the event manager is processing of, when one of the titles corresponding to the operation mode object for the virtual machine mode is selected as a current title, judging to which one of the key events an application written in the operation mode object for the virtual machine mode corresponds.

7. (Currently Amended) A program stored on a non-transitory computer-readable medium, the program causing a computer operable in one of a movie mode and a virtual machine mode to perform playback of a title that includes a digital stream, execution of an application, and the following steps:

an execution step of causing a virtual machine in the computer to execute the application in the virtual machine mode;

a playback control step of performing playback control on the digital stream; and

a management step of, when an event is generated in response to a user operation in the virtual machine mode, judging whether or not to cause the application to process the event, and when a result of the judgment is affirmative, further outputting one of key events so as to cause the application to process the event,

wherein the event indicates that a user has operated one of keys that are respectively allocated to audio video (AV) functions ~~when the result of the judgment is negative, the management step causes the computer to perform an operation step of causing the playback control step to process an operation corresponding to the event,~~

the application is associated with event registration information indicating whether or not each of the key events has been registered therewith, and any key event that is indicated as having been registered with the event registration information can be processed by the associated application,

the judgment by the event manager is made by, when the event is generated in response to the user operation, judging whether or not the event has been registered with the event registration information associated with the application that is executed by the virtual machine,

when the result of the judgment is negative, the management step causes the computer to perform an operation step of causing the playback control step to perform an AV function corresponding to the event.

8. (Currently Amended) A playback method that performs, on a computer, playback of a title that includes a digital stream, and execution of an application, the computer operating in one of movie mode and virtual machine mode, the method comprising:

an execution step of causing a virtual machine in the computer to execute the application

in the virtual machine mode;

a playback control step of performing playback control on the digital stream; and

a management step of, when an event is generated in response to a user operation in the virtual machine mode, judging whether or not to cause the application to process the event, and when a result of the judgment is affirmative, further outputting one of key events so as to cause the application to process the event,

wherein the event indicates that a user has operated one of keys that are respectively allocated to audio video (AV) functions ~~the management step includes an operation substep of, when the result of the judgment is negative, causing the playback control step to process an operation corresponding to the event,~~

the application is associated with event registration information indicating whether or not each of the key events has been registered therewith, and any key event that is indicated as having been registered with the event registration information can be processed by the associated application,

the judgment by the event manager is made by, when the event is generated in response to the user operation, judging whether or not the event has been registered with the event registration information associated with the application that is executed by the virtual machine,

the management step includes an operation substep of, when the result of the judgment is negative, causing the playback control step to process an AV function corresponding to the event.

9. (Previously Presented) The playback apparatus of claim 5, wherein

the playback control performed by the playback control engine unit involves audio video (AV) functions that include play, stop, forward play, backward play, skip, pause on, and still off,

the event indicates that a user has operated one of keys that are respectively allocated to the AV functions, and

the operation manager causes the playback control engine unit to execute one of the AV functions corresponding to the event as the processing of the operation.

10. (Previously Presented) The playback apparatus of claim 9, wherein the digital stream, the application, and an index table have been recorded on a recording medium,

the index table shows whether each of the operation mode objects corresponding to the titles is for movie mode or virtual machine mode,

each operation mode object for the movie mode includes a navigation command showing a control procedure,

the navigation command is a command for instructing the playback control engine unit to perform playback, status obtainment, and status setting,

the movie mode is mode for controlling execution of each of the AV functions by the playback control engine unit in accordance with the navigation command written in each operation mode object, and

the playback apparatus further comprises a module manager operable to select one of the titles that is to be played back from now based on the index table.

11. (Previously Presented) The program of claim 7, wherein the playback control performed by the playback control engine unit involves audio video (AV) functions that include play, stop, forward play, backward play, skip, pause on, and still off,

the event indicates that a user has operated one of keys that are respectively allocated to the AV functions,

registration information associated with the application that is executed by the virtual machine, and

the operation manager causes the playback control engine unit to execute one of the AV functions corresponding to the event as the processing of the operation.

12. (Previously Presented) The playback method of claim 8, wherein

the playback control performed by the playback control engine unit involves audio video (AV) functions that include play, stop, forward play, backward play, skip, pause on, and still off,

the event indicates that a user has operated one of keys that are respectively allocated to the AV functions, and

the operation manager causes the playback control engine unit to execute one of the AV functions corresponding to the event as the processing of the operation.